

L Number	Hits	Search Text	DB	Time stamp
1	5	((("3499047") or ("4046820"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 06:32
2	22	gorton-earl-m.in. or olinger-ronald-d.in. or miller-stephen-d.in. or haborak-dana-m.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 06:56
3	14	((("3265747") or ("4069265") or ("4351973") or ("4992604") or ("5405891") or ("5654430") or ("6150573"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:14
4	29	((("3251891") or ("3265741") or ("3281480") or ("3499047") or ("3532761") or ("3535392") or ("4018837") or ("4309301") or ("4324928") or ("4351973"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:20
5	434159	silica	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:20
6	0	((("3251891") or ("3265741") or ("3281480") or ("3499047") or ("3532761") or ("3535392") or ("4018837") or ("4309301") or ("4324928") or ("4351973"))).PN.) and silica	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:20
7	30	((("5569794") or ("4942267") or ("4424147") or ("4026956") or ("4018837") or ("4016215") or ("3767585") or ("3546304") or ("3406213") or ("3384673") or ("2841625") or ("3956162"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:07
9	294436	(2,2,6,6-tetramethyl (20a) piperidin\$6) or (2,2,5,5-tetramethyl (20a) pyrrolidin\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:09
10	0	((("5569794") or ("4942267") or ("4424147") or ("4026956") or ("4018837") or ("4016215") or ("3767585") or ("3546304") or ("3406213") or ("3384673") or ("2841625") or ("3956162"))).PN.) and ((2,2,6,6-tetramethyl (20a) piperidin\$6) or (2,2,5,5-tetramethyl (20a) pyrrolidin\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:10
11	1	silica and ((("5569794") or ("4942267") or ("4424147") or ("4026956") or ("4018837") or ("4016215") or ("3767585") or ("3546304") or ("3406213") or ("3384673") or ("2841625") or ("3956162"))).PN.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:12
12	5977	silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:17
13	2864	(silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) and (stabiliz\$4 or inhibitor)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:15
14	1443	((silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) and (stabiliz\$4 or inhibitor)) and (silica adj gel or precipitated adj silica or fumed adj silica)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:18
15	19222	(trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:17
16	143351	(silica adj gel or precipitated adj silica or fumed adj silica)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:18

18	78	((silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) and (stabiliz\$4 or inhibitor)) and (((trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) same (silica adj gel or precipitated adj silica or fumed adj silica)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:18
17	213	((trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) same (silica adj gel or precipitated adj silica or fumed adj silica))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:22

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NEWS	3	SEP 09	CA/CAPLUS records now contain indexing from 1907 to the present
NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
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NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS	EXPRESS		MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

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STRUCTURE FILE UPDATES: 19 MAR 2004 HIGHEST RN 665776-10-3

DICTIONARY FILE UPDATES: 19 MAR 2004 HIGHEST RN 665776-10-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s "bis(2,2,6,6-tetramethyl-1-piperdinyloxy-4-yl)sebacate"

2793902 "BIS"

27301 "2,2,6,6"

325662 "TETRAMETHYL"

14629221 "1"

0 "PIPERDINYLOXY"

13483301 "4"

11585405 "YL"

663 "SEBACATE"

L1 0 "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"

("BIS" (W) "2,2,6,6" (W) "TETRAMETHYL" (W) "1" (W) "PIPERDINYLOXY" (W) "4" (W) "YL" (W) "SEBACATE")

=> s "bis(2,2,6,6-tetramethyl-1-piperdinyloxy-4-yl)sebacate"/cn

L2 0 "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	40.71	40.92

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Mar 19, 2004 (20040319/UP).

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=> file stnguide
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.48      41.40
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FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 19, 2004 (20040319/UP).

```
=> file rg
'RG' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'STNGUIDE'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
```

```
=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.66      42.06
```

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DICTIONARY FILE UPDATES: 19 MAR 2004 HIGHEST RN 665776-10-3

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> ....Testing the current file.... screen
```

```
ENTER SCREEN EXPRESSION OR (END):end
```

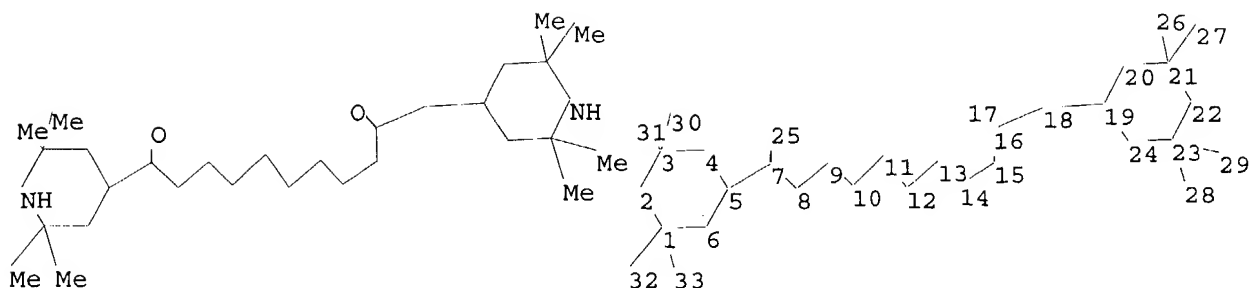
```
=> screen 966
```

```
L3      SCREEN CREATED
```

```
=> screen 2016 OR 2021
```

```
L4      SCREEN CREATED
```

```
=>
Uploading C:\Program Files\Stnexp\Queries\10648976.str
```



chain nodes :

7 8 9 10 11 12 13 14 15 16 17 18 25 26 27 28 29 30 31 32 33

ring nodes :

1 2 3 4 5 6 19 20 21 22 23 24

chain bonds :

1-32 1-33 3-30 3-31 5-7 7-8 7-25 8-9 9-10 10-11 11-12 12-13 13-14
14-15 15-16 16-17 16-18 18-19 21-26 21-27 23-28 23-29

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 19-20 19-24 20-21 21-22 22-23 23-24

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-25 16-17 19-20 19-24 20-21 21-22 22-23 23-24

exact bonds :

1-32 1-33 3-30 3-31 5-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
15-16 16-18 18-19 21-26 21-27 23-28 23-29

isolated ring systems :

containing 1 : 19 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

L5 STRUCTURE UPLOADED

=> que L5 AND L3 NOT L4

L6 QUE L5 AND L3 NOT L4

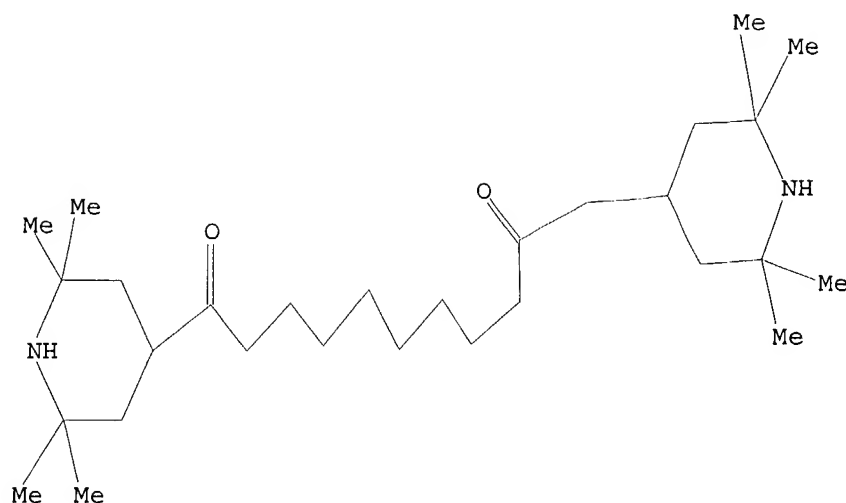
=> d

L6 HAS NO ANSWERS

L3 SCR 966

L4 SCR 2016 OR 2021

L5 STR



Structure attributes must be viewed using STN Express query preparation.
 L6 QUE L5 AND L3 NOT L4

=> s 16
 SAMPLE SEARCH INITIATED 02:53:41 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 0 TO 0
 PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L5 AND L3 NOT L4

=> s 16 ful
 FULL SEARCH INITIATED 02:53:46 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 22 TO ITERATE

100.0% PROCESSED 22 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L5 AND L3 NOT L4

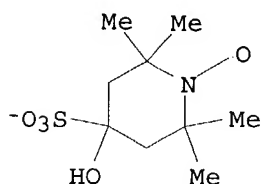
=> s 2,2,6,6-tetrametyl (20a) piperidin?
 27301 2,2,6,6
 0 TETRAMETYL
 0 2,2,6,6-TETRAMETYL
 (2,2,6,6 (W) TETRAMETYL)
 663548 PIPERIDIN?
 L9 0 2,2,6,6-TETRAMETYL (20A) PIPERIDIN?

=> s 2,2,6,6-tetramethyl (20a) piperidin?
 27301 2,2,6,6
 325662 TETRAMETHYL
 25823 2,2,6,6-TETRAMETHYL
 (2,2,6,6 (W) TETRAMETHYL)
 663548 PIPERIDIN?
 L10 20223 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?

```
=> s 2,2,6,6-tetramethyl (20a) piperidinyloxy?
      27301 2,2,6,6
      325662 TETRAMETHYL
      25823 2,2,6,6-TETRAMETHYL
            (2,2,6,6(W)TETRAMETHYL)
      5120 PIPERIDINYLOXY?
L11      3433 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
```

=> d scan

```
L11 3433 ANSWERS  REGISTRY  COPYRIGHT 2004 ACS on STN
IN  1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-4-sulfo-, ion(1-)
      (9CI)
MF   C9 H17 N O5 S
CI   COM
```



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus uspatful

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	200.33	242.39

FILE 'CAPLUS' ENTERED AT 03:00:55 ON 22 MAR 2004
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FILE 'USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004
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=> s l11

```
L12      7767 L11
```

=> s l12 and (127-18-4 or 71-55-6 or 79-00-5)

```
L13      3 L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
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=> dup rem l13

PROCESSING COMPLETED FOR L13

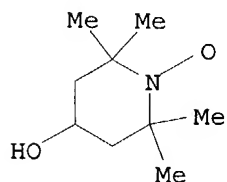
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L14      3 DUP REM L13 (0 DUPLICATES REMOVED)
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=> d 1-3 bib ab fhitstr

```
L14 ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2004:60435  CAPLUS
DN   140:130113
TI   Method of stabilizing trichloroethane during distillation using stable
      free radicals
IN   Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.
PA   PPG Industries Ohio, Inc., USA
SO   PCT Int. Appl., 17 pp.
```


CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004007409	A1	20040122	WO 2003-US20204	20030626
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A	20030513		
OS	CASREACT 140:130113				
AB	A method of stabilizing trichloroethane during processing at temps. where trichloroethane is susceptible to thermal decomposition comprises processing trichloroethane in the presence of a stable free radical stabilizer. The stabilizer containing a stable free radical group can be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, and 2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy. Thus, a product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm of 4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without such an additive contained 212 ppm of VDC.				
IT	2226-96-2, 4-Hydroxy-TEMPO				
	RL: NUU (Other use, unclassified); USES (Uses) (Petroflo 20Y104; method of stabilizing trichloroethane during distillation using stable free radicals)				
RN	2226-96-2	CAPLUS			
CN	1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-	(9CI)	(CA INDEX NAME)		



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162519 CAPLUS
TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer
IN Gorton, Earl M.; Olinger, Ronald D.
PA USA
SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2
PATENT NO. KIND DATE APPLICATION NO. DATE

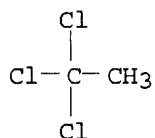
PI	US 2004039237	A1	20040226	US 2003-648972	20030827
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A2	20030513		

AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

IT 71-55-6, 1,1,1-Trichloroethane
 RL: TEM (Technical or engineered material use); USES (Uses)
 (stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer)

RN 71-55-6 CAPLUS

CN Ethane, 1,1,1-trichloro- (8CI, 9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:8627 CAPLUS

DN 128:61255

TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them

IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro

PA Hakuto K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

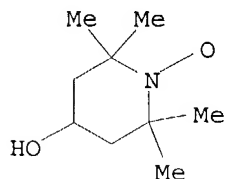
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 09328444	A2	19971222	JP 1996-145880	19960607
PRAI	JP 1996-145880		19960607		
OS	MARPAT 128:61255				

AB The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition).

IT 2226-96-2, HTEMPO
 RL: MOA (Modifier or additive use); USES (Uses)
 (1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)

RN 2226-96-2 CAPLUS

CN 1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



=> file chemistry patent

FILE 'ENCOMPLIT' ACCESS NOT AUTHORIZED
FILE 'ENCOMPAT' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	91.92	334.31

	SINCE FILE ENTRY	TOTAL SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	-2.08	-2.08

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FILE 'ALUMINIUM' ENTERED AT 03:04:20 ON 22 MAR 2004
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s 127-18-4 or 71-55-6 or 79-00-5
26 FILES SEARCHED...
53 FILES SEARCHED...
61 FILES SEARCHED...
64 FILES SEARCHED...

L15 32173 127-18-4 OR 71-55-6 OR 79-00-5

=> s free radical stabilizer and 115
36 FILES SEARCHED...
60 FILES SEARCHED...
L16 3 FREE RADICAL STABILIZER AND L15

=> dup rem 116
DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK,
INVESTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,

SYNTHLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L16

L17 2 DUP REM L16 (1 DUPLICATE REMOVED)

=> d 1-2 bib ab

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:60435 CAPLUS
DN 140:130113
TI Method of stabilizing trichloroethane during distillation using stable
free radicals
IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.
PA PPG Industries Ohio, Inc., USA
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004007409	A1	20040122	WO 2003-US20204	20030626
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A	20030513		

OS CASREACT 140:130113

AB A method of stabilizing trichloroethane during processing at temps. where trichloroethane is susceptible to thermal decomposition comprises processing trichloroethane in the presence of a stable **free radical stabilizer**. The stabilizer containing a stable free radical group can be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, and 2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy. Thus, a product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm

of 4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without such an additive contained 212 ppm of VDC.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162519 CAPLUS
TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy **free radical stabilizer**
IN Gorton, Earl M.; Olinger, Ronald D.
PA USA
SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004039237	A1	20040226	US 2003-648972	20030827
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A2	20030513		
AB	Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].				

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"
L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE,
BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN,
COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP,
GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22
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L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)

=> s l15 and l11

3 FILES SEARCHED...
8 FILES SEARCHED...
10 FILES SEARCHED...
14 FILES SEARCHED...
20 FILES SEARCHED...
25 FILES SEARCHED...
31 FILES SEARCHED...
36 FILES SEARCHED...
45 FILES SEARCHED...
52 FILES SEARCHED...
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...

62 FILES SEARCHED...

64 FILES SEARCHED...

L18 4 L15 AND L11

=> dup rem l18

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PROCESSING COMPLETED FOR L18

L19 3 DUP REM L18 (1 DUPLICATE REMOVED)

=> d 1-3 bib ab

L19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

AN 2004:60435 CAPLUS

DN 140:130113

TI Method of stabilizing trichloroethane during distillation using stable free radicals

IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.

PA PPG Industries Ohio, Inc., USA

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004007409	A1	20040122	WO 2003-US20204	20030626
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

US 2004030203	A1	20040212	US 2003-436664	20030513
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PRAI US 2002-396460P P 20020716

US 2003-436664 A 20030513

OS CASREACT 140:130113

AB A method of stabilizing trichloroethane during processing at temps. where trichloroethane is susceptible to thermal decomposition comprises processing trichloroethane in the presence of a stable free radical stabilizer. The stabilizer containing a stable free radical group can be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, and 2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy. Thus, a product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm of 4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without such an additive contained 212 ppm of VDC.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:162519 CAPLUS

TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer

IN Gorton, Earl M.; Olinger, Ronald D.

PA USA

SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004039237	A1	20040226	US 2003-648972	20030827
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A2	20030513		

AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:8627 CAPLUS

DN 128:61255

TI Decomposition inhibitors containing 1-oxypiperidines and inhibition of decomposition of chlorohydrocarbons by using them

IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro

PA Hakuto K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09328444	A2	19971222	JP 1996-145880	19960607
PRAI	JP 1996-145880		19960607		

OS MARPAT 128:61255

AB The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition).

=> d his

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L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"

L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN

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FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966

L4 SCREEN 2016 OR 2021

L5 STRUCTURE UPLOADED

L6 QUE L5 AND L3 NOT L4

L7 0 S L6

L8 0 S L6 FUL

L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?

L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?

L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

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L12 7767 S L11

L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
L18 4 S L15 AND L11
L19 3 DUP REM L18 (1 DUPLICATE REMOVED)

=> s bis (20a) 2,2,6,6-tetramethyl (20a) piperidinyloxy?

6 FILES SEARCHED...
9 FILES SEARCHED...
17 FILES SEARCHED...
25 FILES SEARCHED...
34 FILES SEARCHED...
36 FILES SEARCHED...
48 FILES SEARCHED...
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...
62 FILES SEARCHED...
64 FILES SEARCHED...
69 FILES SEARCHED...

L20 236 BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

=> s l15 and l20

53 FILES SEARCHED...

L21 0 L15 AND L20

=> s 2,2,6,6-tetramethyl (20a) piperidin?

8 FILES SEARCHED...
17 FILES SEARCHED...
25 FILES SEARCHED...
34 FILES SEARCHED...
36 FILES SEARCHED...
48 FILES SEARCHED...

COMMAND INTERRUPTED

53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...
62 FILES SEARCHED...
64 FILES SEARCHED...
69 FILES SEARCHED...

L22 13397 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?

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53 FILES SEARCHED...

L23 5 L22 AND L15

=> dup rem l23

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L24 4 DUP REM L23 (1 DUPLICATE REMOVED)

=> d 1-4 bib ab

L24 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:60435 CAPLUS
DN 140:130113
TI Method of stabilizing trichloroethane during distillation using stable
free radicals
IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.
PA PPG Industries Ohio, Inc., USA
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004007409	A1	20040122	WO 2003-US20204	20030626
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A	20030513		

OS CASREACT 140:130113

AB A method of stabilizing trichloroethane during processing at temps. where trichloroethane is susceptible to thermal decomposition comprises processing trichloroethane in the presence of a stable free radical stabilizer. The stabilizer containing a stable free radical group can be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, and 2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy. Thus, a product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm of 4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without such an additive contained 212 ppm of VDC.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162519 CAPLUS
TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer
IN Gorton, Earl M.; Olinger, Ronald D.
PA USA
SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004039237	A1	20040226	US 2003-648972	20030827

US 2004030203 A1 20040212 US 2003-436664 20030513
 PRAI US 2002-396460P P 20020716
 US 2003-436664 A2 20030513

AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

L24 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:685673 CAPLUS

DN 135:210940

TI Preparation method of 4-chloro-2,2,6,6-tetramethylpiperidine

IN Tian, He; Chen, Kongchang; Guo, Lin; Wu, Chengyue; Cui, Minhua; Xu, Yaixin; Lu, Yiping; Shi, Zuliang

PA Fine Chemical Plant, Shanghai Gaoqiao Petro-Chemical Co., Ltd., Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1281850	A	20010131	CN 2000-116878	20000630
PRAI	CN 2000-116878		20000630		

OS CASREACT 135:210940; MARPAT 135:210940

AB The process comprises chlorinating 4-hydroxy-2,2,6,6-tetramethylpiperidine with SOCl₂ in organic solvent in the presence of quaternary ammonium chloride catalyst at 50-120° for 2-10 h, cooling to 30°, adding water under cooling, regulating with 4N NaOH solution to pH 10-11, extracting aqueous phase

with Et ether, distilling, and sublimating in vacuum. The mole ratio of catalyst to 4-hydroxy-2,2,6,6-tetramethylpiperidine is 20-40%. The quaternary ammonium chloride contains one arylalkyl group, preferably benzyl. The solvent is benzene, toluene, xylene, acetonitrile, 1,1,2-trichloroethane, preferably toluene.

L24 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1985:97034 CAPLUS

DN 102:97034

TI Coating of polypropylene moldings

PA Mitsubishi Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59179626	A2	19841012	JP 1983-56699	19830331
	JP 03022895	B4	19910327		
PRAI	JP 1983-56699		19830331		

AB Moldings containing 54-84 parts crystalline propylene polymer (I) (melt index 14-80), 15-32 parts ethylene-propylene copolymer rubber (II) [ML1+4 (100°) 15-90], and 1-14 parts high-d. polyethylene (III) [9002-88-4] (d. ≥0.94, melt index 0.6-25) are cleaned with MeCCl₃ [71-55-6] vapor and then coated. The moldings have high impact resistance and rigidity and an excellent appearance and are useful for exterior automotive trim materials requiring coating ease and low-temperature impact resistance, especially for bumpers. Thus, I (melt index 14, containing

5%

ethylene) 54, II [ML1+4 (100°) 20, containing 75% ethylene] 32, III (melt index 7, d. 0.96) 14, Al 4-tert-butylbenzoate (core-forming agent)

0.2, bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate (UV absorber) 0.3, and polypropylene (containing 30% carbon black) 3.3 parts were mixed, extruded, and molded. The molding had excellent impact strength, flexural modulus, and mold shrinkage factor and no flow marks. The molding was cleaned with MeCCl₃ vapor, primed with R291, finish coated with R263, and baked at 110° for 30 min to give excellent film peel strength.

=> s 2,2,5,5-tetramethyl (20a) pyrrolidin?

6 FILES SEARCHED...
9 FILES SEARCHED...
17 FILES SEARCHED...
25 FILES SEARCHED...
32 FILES SEARCHED...
36 FILES SEARCHED...
48 FILES SEARCHED...
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...
62 FILES SEARCHED...
64 FILES SEARCHED...
69 FILES SEARCHED...

L25 1181 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?

=> s l15 and l25

53 FILES SEARCHED...
64 FILES SEARCHED...

L26 0 L15 AND L25

=> s (oxidation or decomposition) (20a) (inhibitor? or stabiliz?)

25 FILES SEARCHED...
48 FILES SEARCHED...
62 FILES SEARCHED...

L27 75130 (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)

=> s l15 and l27

75% OF LIMIT FOR L#S REACHED
53 FILES SEARCHED...

L28 45 L15 AND L27

=> dup rem l28

DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK, INVESTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN, SYNTHLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L28

L29 42 DUP REM L28 (3 DUPLICATES REMOVED)

=> d 1-42 ti

L29 ANSWER 1 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN

TI Evidence for simultaneous abiotic-biotic oxidations in a
microbial-Fenton's system

L29 ANSWER 2 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN

TI Chlorinated degreasing solvents: Physical-chemical properties affecting
aquifer contamination and remediation

L29 ANSWER 3 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN

TI Chlorinated degreasing solvents: Physical-chemical properties affecting

aquifer contamination and remediation

- L29 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Rapid landfill stabilization and improvements in leachate quality by leachate recirculation
- L29 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Decomposition inhibitors** containing 1-oxylpiperidines and inhibition of **decomposition** of chlorohydrocarbons by using them
- L29 ANSWER 6 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI Monitoring reagent for paper degradation in power transformers - comprises primary amine, acetic/citric acid, salicylic acid and antioxidant, with calibrated colour standards medium
- L29 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Vapor-phase process and catalysts for producing hydrofluorocarbons and hydrochlorofluorocarbons from perchloroethylene in the presence of a phenolic **oxidation inhibitor**
- L29 ANSWER 8 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI [A review of] hazardous waste treatment technologies
- L29 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Transformation of tetrachloroethene to ethene in mixed methanogenic cultures: effect of electron donor, biomass levels, and inhibitors
- L29 ANSWER 10 OF 42 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
TI Cometabolic degradation of chlorinated alkenes by alkene monooxygenase in a propylene-grown Xanthobacter strain. DUPLICATE 1
- L29 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Additive compositions for **stabilization** against perchloroethylene **decomposition**
- L29 ANSWER 12 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI Detergent for cleaning of electric machine - contains specified petroleum fraction, per chloroethylene, methyl-ditert. butyl phenol and difluoro-tetrachloroethane
- L29 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Reactivity of chlorine-containing peroxy radicals toward aromatic compounds
- L29 ANSWER 14 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI 4,4(PRIME)-Dibromophenyl preparation in halogenated hydrocarbon solvent - in presence of catalyst selected from antimony, titanium, tin and zinc or their cpds
- L29 ANSWER 15 OF 42 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
TI Biodegradation of chlorinated ethenes by a methane-utilizing mixed culture
- L29 ANSWER 16 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI STABILISATION OF PERCHLOROETHYLENE DIELECTRIC FLUIDS - BY ADDING

DICYANDIAMIDE OR A FEW RELATED CPDS

- L29 ANSWER 17 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI ELECTRICALLY STABLE COMPSNS. FOR TRANSFORMERS OR CAPACITORS - COMPRISES
MIXT. OF PERCHLOROETHYLENE, HYDROCARBON INSULATING OIL, POLYHYDRIC PHENOL
AND ANTIOXIDANT
- L29 ANSWER 18 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI STABILISING CHLORO-HYDROCARBON BY CONTACT WITH ZEOLITE - AND USE OF
STABILISED TETRACHLORO-ETHENE AS DIELECTRIC FLUID IN TRANSFORMERS
- L29 ANSWER 19 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI PERCHLOROETHYLENE BASED DIELECTRIC FLUID, ESP. FOR TRANSFORMERS - CONTG.
N-METHYL-PYRROLE AND PARA-TERT. AMYL PHENOL AS ANTIOXIDANTS
- L29 ANSWER 20 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI HIGH PURITY TETRACHLOROETHYLENE DIELECTRIC TRANSFORMER FLUID - IS USED
ALONE OR WITH OXIDN. INHIBITOR AND OR DILUENT
- L29 ANSWER 21 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI SOME CHEMICAL PROPERTIES OF TETRACHLOROETHYLENE, TRICHLOROETHYLENE, AND
1,1,1-TRICHLOROETHANE (OF SIGNIFICANCE TO CORROSION)...AN OVERVIEW
FUR DAS KORROSIVE VERHALTEN WICHTIGE CHEMISCHE EIGENSCHAFTEN DES
PERCHLORETHYLENS, TRICHLORETHYLENS UND 1,1,1-TRICHLORETHANS...EINE
UBERSICHT.
- L29 ANSWER 22 OF 42 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 2
TI Destruction and discoloration of silk due to **decomposition**
products of perchloroethylene and **stabilizers**.
- L29 ANSWER 23 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI STORAGE STABILIZED METHYLCHLOROFORM FORMULATIONS; CONTAINING
1,3-DIOXOLANES OR 1,4-DIOXANE; ALIPHATIC ALDEHYDE HYDRAZONE
- L29 ANSWER 24 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI STABILIZED METHYLCHLOROFORM
- L29 ANSWER 25 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI STABILIZATION OF 1,1,1-TRICHLOROETHANE; STYRENE OXIDE, PHENYL GLYCIDYL
ETHER
- L29 ANSWER 26 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI HIGH REACTIVITY PHOSPHORUS PENTASULPHIDE PREPN. - BY COOLING AND QUENCHING
THE MOLTEN SULPHIDE IN A LIQUID
- L29 ANSWER 27 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI STABLE SOLVENT COMPOSITION
- L29 ANSWER 28 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI POLYOLEFIN COMPSN - CONTG ORGANOALUMINIUM CPD STABILISERS
- L29 ANSWER 29 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI SULFUR EXTRACTION BY SEQUENTIAL CONTACT WITH VAPOR AND WITH LIQUID
PERCHLOROETHYLENE

L29 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
 TI Methylchloroform containing nitromethane and a lower alkanol as
stabilizers against its **decomposition** in the presence of
 metals

L29 ANSWER 31 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
 TI PROCESS FOR **STABILIZING** AGAINST **DECOMPOSITION**
 HALOGENATED HYDROCARBONS, AND IN PARTICULAR CHLORINATED ALIPHATIC
 HYDROCARBONS

L29 ANSWER 32 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
 TI PROCESS FOR STABILIZING HALOGENATED HYDROCARBONS

L29 ANSWER 33 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
 TI STABILIZATION

L29 ANSWER 34 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
 TI NON-CORROSIVE DRY-CLEANING COMPOSITION

L29 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 TI **Decomposition inhibitor** for trichloro- and
 perchloroethylene

L29 ANSWER 36 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
 INFORMATION INC. on STN
 TI GEIGY BROADENS ITS RANGE OF ANTIOXIDANTS

L29 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 TI **Stabilization** of methylchloroform against **decomposition**
 by metals

L29 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 TI **Stabilization** of methylchloroform against **decomposition**
 by metals

L29 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Stabilization of certain hydrocarbon chlorides

L29 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 TI **Stabilizer** for prevention of halogenated hydrocarbon
decomposition

L29 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Stabilization of chlorinated hydrocarbons with 2,5-dimethyl-1,5-hexadiene-
 3-yne

L29 ANSWER 42 OF 42 NIOSHTIC on STN
 TI A Low Dose Range, Chemical, Radiation Detector For Personnel Monitoring

=> d 5,7,11,16,23,24,25,27,30,31,32,33,35,37,38,39,41 bib ab

L29 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:8627 CAPLUS
 DN 128:61255
 TI **Decomposition inhibitors** containing 1-oxylpiperidines
 and inhibition of **decomposition** of chlorohydrocarbons by using
 them
 IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
 PA Hakuto K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09328444	A2	19971222	JP 1996-145880	19960607
PRAI	JP 1996-145880		19960607		

OS MARPAT 128:61255

AB The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition).

L29 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:701936 CAPLUS

DN 126:7674

TI Vapor-phase process and catalysts for producing hydrofluorocarbons and hydrochlorofluorocarbons from perchloroethylene in the presence of a phenolic **oxidation inhibitor**

IN Tung, Hsueh S.

PA AlliedSignal Inc., USA

SO U.S., 5 pp., Continuation of U.S. Ser. No. 248, 127, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5569794	A	19961029	US 1995-521258	19950830
PRAI	US 1994-248127		19940524		

AB Hydrofluorocarbons and hydrochlorofluorocarbons are prepared by reacting anhydrous HF in the vapor phase and in the presence of a fluorination catalyst (e.g., Cr, Al, Co, etc.) with an admixt. of perchloroethylene and a 1-10 ppm phenolic inhibitor (e.g., hydroquinone, hydroquinone monomethyl ether) which serves to inhibit the formation of an oxidation product in the perchloroethylene while not substantially degrading the fluorination catalyst during the fluorination process. In another claim, substantially all of the oxidation inhibitor is removed from the perchloroethylene in-line prior to reacting the HF with the perchloroethylene.

L29 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1990:574480 CAPLUS

DN 113:174480

TI Additive compositions for **stabilization** against perchloroethylene **decomposition**

IN Roark, Roger W.; Cairns, Glenn R.; Rowe, Edward A., Jr.

PA Occidental Chemical Corp., USA

SO U.S., 4 pp. Cont. of U.S. Ser. No. 945,167, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4942267	A	19900717	US 1988-225580	19880728
PRAI	US 1981-320614		19811112		
	US 1983-529987		19830909		
	US 1986-945167		19861222		

AB Perchloroethylene, useful in vapor-phase decreasing operations, is stabilized against decomposition by an additive composition containing (A) an amine

component selected from N,N'-dimethylpiperazine, N,N'-diethylpiperazine, N-methylpiperazine, N-ethylpiperazine, and their mixts., (B) an alc. selected from BuOH, 1-pentanol, cyclohexanol, 2-methoxyethanol, 2,3-butanediol, and their mixts., and (C) an olefin selected from

1-octene, 1-decene, 1,3,5-cycloheptatriene, dicyclopentadiene, and their mixts.

L29 ANSWER 16 OF 42 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
AN 84:5424 ENCOMPAT;ENCOMPAT2
DN 8420901
TI STABILISATION OF PERCHLOROETHYLENE DIELECTRIC FLUIDS - BY ADDING
DICYANDIAMIDE OR A FEW RELATED CPDS
PA WESTINGHOUSE ELEC CORP
PI US 4424147 840103
PRAI US 1982-413592 820831
OS DERWENT 84023750

L29 ANSWER 23 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 01077601 IFIPAT;IFIUDB;IFICDB
TI STORAGE STABILIZED METHYLCHLOROFORM FORMULATIONS; CONTAINING
1,3-DIOXOLANES OR 1,4-DIOXANE; ALIPHATIC ALDEHYDE HYDRAZONE
INF Manner, James A, Akron, OH
IN MANNER JAMES A
PAF PPG Industries, Inc, Pittsburgh, PA
PA PPG INDUSTRIES INC (67436)
EXNAM Horwitz, D
AG Benjamin, Roger S
PI US 4026956 A 19770531 (CITED IN 004 LATER PATENTS)
AI US 1975-585989 19750611
XPD 31 May 1994
RLI US 1969-822706 19690507 CONTINUATION-IN-PART 3532761
US 1970-16217 19700304 CONTINUATION-IN-PART ABANDONED
US 1972-288821 19720913 CONTINUATION-IN-PART ABANDONED
FI US 4026956 19770531
US 3532761
DT Utility
FS CHEMICAL
GRANTED
OS CA 87:38841
CLMN 23
AB Methylchloroform formulations containing 1,3-dioxolanes and/or
1,4-dioxane are storage-stabilized by the addition of aliphatic aldehyde
hydrazone.

L29 ANSWER 24 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 01069414 IFIPAT;IFIUDB;IFICDB
TI STABILIZED METHYLCHLOROFORM
INF Archer, Wesley L, Midland, MI
Gerard, Raymond R, Bay City, MI
Simpson, Elbert L, Auburn, MI
IN ARCHER WESLEY L; GERARD RAYMOND R; SIMPSON ELBERT L
PAF The Dow Chemical Company, Midland, MI
PA DOW CHEMICAL CO THE (24712)
EXNAM Horwitz, D
AG Baker, Glwynn R
PI US 4018837 A 19770419 (CITED IN 004 LATER PATENTS)
AI US 1974-527003 19741125
XPD 19 Apr 1994
RLI US 1972-281242 19720816 CONTINUATION-IN-PART ABANDONED
US 1972-281243 19720816 CONTINUATION-IN-PART ABANDONED
US 1972-281244 19720816 CONTINUATION-IN-PART ABANDONED
US 1972-281245 19720816 CONTINUATION-IN-PART ABANDONED
FI US 4018837 19770419
DT Utility
FS CHEMICAL
GRANTED
OS CA 87:22356

CLMN 11

GI 6 Drawing Sheet(s), 9 Figure(s).

AB A stable 1,1,1-trichloroethane composition containing 1,1,1-trichloroethane and, as the essential acid acceptor, 0.25 to 1 weight percent of a C4-8 monoepoxide, epichlorohydrin or a mixture of such epoxides and, as the essential **stabilizer** against metal-induced **decomposition**, 3.5 to 4.5 weight percent of a three-component system selected from the group consisting of: DIOXANE, TRIOXANE, DIOXOLANE, T. BUTYL ALCOHOL, AND A C1-3 nitroalkane or mixtures of nitroalkanes, in a proportion one to the other within the shaded areas of FIGS. 1-9, provided that when a nitroalkane is not present as a member of the three-component mixture, it is added in an amount to provide from about 0.25 to 1 percent by weight of said nitromethane. The composition set forth balances inhibitor content to obtain protection in both the liquid and vapor without excessive losses or concentrations disproportionate with solvent losses through vapor escape or liquid dragout. Thus the above compositions are stable in the presence of the metals aluminum, zinc, iron, copper and their alloys, both in the liquid and vapor state of the compositions. The compositions do not partition in a manner to concentrate the low boiling stabilizers in the vapor or the high boiling stabilizers in the liquid even after refluxing over extended periods of time accompanied by frequent additions of make-up volumes of stabilized 1,1,1-trichloroethane to compensate for the solvent losses.

L29 ANSWER 25 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

AN 01066775 IFIPAT;IFIUDB;IFICDB

TI STABILIZATION OF 1,1,1-TRICHLOROETHANE; STYRENE OXIDE, PHENYL GLYCIDYL ETHER

INF Miyanohara, Isao, Shin Nanyo, JP

Otsuki, Susumu, Shin Nanyo, JP

Uchida, Kanichi, Shin Nanyo, JP

IN MIYANOHARA ISAO; OTSUKI SUSUMU; UCHIDA KANICHI

PAF Toyo Soda Manufacturing Co, Ltd, Tokyo, JP

PA TOYO SODA MANUFACTURING CO LTD JP (85312)

EXNAM Horwitz, D

AG Oblon, Fisher, Spivak, McClelland & Maier

PI US 4016215 A 19770405 (CITED IN 001 LATER PATENTS)

AI US 1975-551646 19750221

XPD 5 Apr 1994

RLI US 1973-363495 19730524 CONTINUATION-IN-PART ABANDONED

US 1971-169112 19710804 DIVISION ABANDONED

PRAI JP 1970-72813 19700821

FI US 4016215 19770405

DT Utility

FS CHEMICAL

GRANTED

OS CA 78:147333

CLMN 7

AB 1,1,1-TRICHLOROETHANE IS **STABILIZED** AGAINST

DECOMPOSITION INITIATED BY CONTACT WITH IRON BY THE USE OF A COMBINATION OF STYRENE OXIDE, PHENYL GLYCIDYL ETHER OR MIXTURES THEREOF WITH A SECOND CONVENTIONAL STABILIZER OF AN ALCOHOL, A NITRO COMPOUND OR A CYCLIC ETHER.

L29 ANSWER 27 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

AN 00816302 IFIPAT;IFIUDB;IFICDB

TI STABLE SOLVENT COMPOSITION

IN GENDA Y; MASUYAMA K; SAWABE S; TAKEBAYASHI M; YAMAMOTO T

PA NIPPON SODA CO LTD JP (59968)

PI US 3767585 A 19731023 (CITED IN 006 LATER PATENTS)

AI US 1971-188527 19711012

XPD 23 Oct 1990

FI US 3767585 19731023

DT Utility

FS CHEMICAL
GRANTED
OS CA 80:84990
AB THIS INVENTION RELATES TO A NEW **STABILIZING** MIXTURE OF
ADDITIVES FOR CHLORINATED ALIPHATIC HYDROCARBONS TO GUARD AGAINST
DECOMPOSITION, AND MORE PARTICULARLY, TO A NEW STABLE SOLVENT
COMPOSITION COMPOSED OF CHLORINATED, ALIPHATIC HYDROCARBONS CONTAINING
MIXTURES OF **STABILIZING** ADDITIVES.

L29 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AN 1971:124776 CAPLUS
DN 74:124776
TI Methylchloroform containing nitromethane and a lower alkanol as
stabilizers against its **decomposition** in the presence of
metals
IN Cormany, Charles L.; Dial, William R.; Pray, Blaine O.
PA PPG Industries, Inc.
SO U.S., 2 pp. Continuation-in-part of U.S. 3,499,047
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 3549715	A	19701222	US 1959-812791	19590513
PRAI	US 1959-812791		19590513		
AB	Continuation-in-part of U.S. 3,499,047 (See Brit. 912,118, CA 58: 13532c). CCl ₃ Me (I) is protected against decomposition due to its corrosive action (particularly on light metals and their alloys) by incorporation of an appropriate concentration of nitroalkane, notably about 2-5 weight % MeNO ₂ .				
I	stabilized with MeNO ₂ may include other components, such as alcs. and epoxides. Thus, stabilized I may contain 0.05-10.0% tert-C ₅ H ₁₁ OH and 0.5-10.0% MeNO ₂ based on the weight of I.				

L29 ANSWER 31 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 00595072 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR **STABILIZING** AGAINST **DECOMPOSITION**
HALOGENATED HYDROCARBONS, AND IN PARTICULAR CHLORINATED ALIPHATIC
HYDROCARBONS
IN PATRON GERMANO (IT)
PA MONTEDISON SPA IT (56948)
PI US 3546304 A 19701208 (CITED IN 004 LATER PATENTS)
AI US 1968-722808 19680419
XPD 8 Dec 1987
PRAI IT 1967-15168 19670420
FI US 3546304 19701208
FR 1580912
DE 1768227
DT Utility
FS CHEMICAL
GRANTED
OS CA 73:34762

L29 ANSWER 32 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 00454844 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR STABILIZING HALOGENATED HYDROCARBONS
IN PATRON GERMANO (IT)
PA MONTEDISON SPA IT (56948)
PI US 3406213 A 19681015 (CITED IN 002 LATER PATENTS)
AI US 1966-532079 19660307
XPD 15 Oct 1985
PRAI IT 1965-5490 19650312
FI US 3406213 19681015

DT Utility
FS CHEMICAL
GRANTED
OS CA 66:37412

L29 ANSWER 33 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 00436823 IFIPAT;IFIUDB;IFICDB
TI STABILIZATION
IN BLANKENSHIP MILTON J; MCCARTHY RALPH
PA DOW CHEMICAL CO THE (24712)
PI US 3384673 A 19680521 (CITED IN 001 LATER PATENTS)
AI US 1966-532119 19660307
XPD 21 May 1985
FI US 3384673 19680521
DT Utility
FS CHEMICAL
GRANTED
OS CA 69:43411

L29 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1967:37412 CAPLUS
DN 66:37412
TI **Decomposition inhibitor for trichloro- and**
perchloroethylene
PA Societa Edison S.p.A.-Settore Chimico
SO Neth. Appl., 7 pp.
CODEN: NAXXAN
DT Patent
LA Dutch
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	NL 6602762		19660903		
	DE 1266298			DE	
	FR 1470810			FR	
	IT 750996			IT	
	US 3406213		19680000	US	
PRAI	IT		19650312		

AB Addition of 0.05-0.005% by weight of furfural dimethylhydrazone prevents decomposition of trichloro- and perchloroethylene when the latter is exposed to metal, heat, O, or moisture. Even better is a mixture of the hydrazone and 0.1-0.3% (by weight) butylene oxide, propylene oxide, 0.01-0.05% thymol, eugenol, p-tert-amyl- or butylphenol and 0.001-0.05% hydroquinone monomethyl ether. For example, trichloroethylene was tested according to the accelerated oxidation expts. USA Army-Navy Aeronautical Specification MIL-T 7003 and the Federal Specification OT-634/a standard. The tests performed in the absence of inhibitor and in the presence of butylene oxide 0.2, propylene oxide 0.55, and thymol 0.002% by weight resulted in a pH decrease from 7 to 1 together with extensive corrosion of the steel coupon. In both cases the mixture was saturated with phosgene. Adding furfural dimethylhydrazone (0.025%) alone or mixed with the propylene oxide, butylene oxide, and thymol in the tests showed no corrosion of the test coupon or change in pH.

L29 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1965:42357 CAPLUS
DN 62:42357
OREF 62:7447d
TI **Stabilization of methylchloroform against decomposition**
by metals
PA Imperial Chemical Industries Ltd.
SO 8 pp.
DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	FR 1372973		19640918	FR	
	BE 639277			BE	
	NL 300025			NL	

PRAI GB 19621102

AB MeCCl3 as a degreasing solvent is stabilized against decomposition caused by metals by the incorporation of 3-5% 1,3-dioxane or 2-methyl-1,3-dioxane and 0.5-2% MeNO2 based on the weight of MeCCl3.

L29 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1965:42356 CAPLUS

DN 62:42356

OREF 62:7447c-d

TI **Stabilization** of methylchloroform against **decomposition** by metals

PA Imperial Chemical Industries Ltd.

SO 9 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	FR 1372972		19640918	FR	
	BE 639276			BE	
	BE 639279			BE	
	NL 300016			NL	
	NL 6411992			NL	

PRAI GB 19621102

AB MeCCl3 as a degreasing solvent is stabilized against decomposition caused by metals by the incorporation of 2-4% 1,3-dioxolane or 2-methyl-1,3-dioxolane and 0.2-2% MENO2 based on the weight of MeCCl3.

L29 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1964:424679 CAPLUS

DN 61:24679

OREF 61:4158b-c

TI Stabilization of certain hydrocarbon chlorides

AU Durchleiter, L.; Ilver, K.; Madsen, Aa.

CS Pharmacopeial Comm., Copenhagen

SO Dansk Tidsskrift for Farmaci (1964), 38(4), 77-88

CODEN: DTFAAN; ISSN: 0011-6513

DT Journal

LA Unavailable

AB Several unstable hydrocarbon chlorides have been adopted in Pharmacopeia Nordica, and a study of stabilizers and their assays has been made. CHCl3 may be **stabilized** with 1% EtOH, assayed by **oxidation** with K2Cr2O7 and HNO3, and back-titrated with Na2S2O3. Cl2C:CCl2 may have EtOH or thymol added, making no specific test possible, except exposure to light and assay for COCl2-formation. Cl2C:CClH is required to contain Waxoline blue AS, a stabilizer in itself, which upon oxidation changes to red. CCl4 needs no stabilizer.

L29 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1958:107169 CAPLUS

DN 52:107169

OREF 52:18965a-c

TI Stabilization of chlorinated hydrocarbons with 2,5-dimethyl-1,5-hexadiene-3-yne

IN Burch, Robert J.; Leeds, Morton W.

PA Air Reduction Co., Inc.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2841625		19580701	US	
AB	Trichloroethylene is stabilized against degradation caused by metals, oxidation , hydrolysis, and pyrolysis by addition of 0.1 weight % of the title compound (I). Stability is further improved by a synergistic action when 2 parts 3-methyl-1-pentyn-3-ol or 0.1 part 2,6-di-tert-butyl-p-cresol is added to 1 part I and the mixture used as above. Similar results are obtained in stabilization of perchloroethylene.				

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"
L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
L18 4 S L15 AND L11
L19 3 DUP REM L18 (1 DUPLICATE REMOVED)
L20 236 S BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
L21 0 S L15 AND L20
L22 13397 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L23 5 S L22 AND L15
L24 4 DUP REM L23 (1 DUPLICATE REMOVED)
L25 1181 S 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?
L26 0 S L15 AND L25
L27 75130 S (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)
L28 45 S L15 AND L27
L29 42 DUP REM L28 (3 DUPLICATES REMOVED)

=> s l15 (25a) (inhibitor? or stabiliz?) (25a) silica

31 FILES SEARCHED...
50 FILES SEARCHED...
L30 1 L15 (25A) (INHIBITOR? OR STABILIZ?) (25A) SILICA

=> d bib ab

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:888857 CAPLUS
DN 140:64467
TI Investigation of the Inhibitory Effect of Silica on the Degradation of
1,1,1-Trichloroethane by Granular Iron
AU Kohn, Tamar; Kane, Sheryl R.; Fairbrother, D. Howard; Roberts, A. Lynn
CS Department of Geography and Environmental Engineering, Johns Hopkins
University, Baltimore, MD, 21218-2686, USA
SO Environmental Science and Technology (2003), 37(24), 5806-5812
CODEN: ESTHAG; ISSN: 0013-936X
PB American Chemical Society
DT Journal
LA English
AB Although iron-based permeable reactive barriers are gaining importance for
treating groundwater contaminants, little is currently known about the
effect of cosolutes on barrier longevity. Because of their corrosion
inhibiting properties, dissolved silica species are of particular concern.
This research investigates the effect of silica on the reduction of
1,1,1-trichloroethane by granular iron as a function of added silica
concentration, pH, and duration of iron exposure to dissolved silica. Batch
studies reveal that, at pH 8.5 and above, added silica concns. as low as
0.17 mM cause a 30% reduction in the reactivity of iron. At higher silica
concns., reactivity decreases by 65-75%. The inhibitory effect is greater
at higher pH: 0.83 mM silica has no apparent adverse effect at pH 7.5, but
leads to a 46% decrease in reaction rate at pH 8 and 90% at pH 9. This
corresponds to observed trends in silica adsorption onto iron, which is low
at pH 7.3 but increases at higher pH. Extending the duration of iron
exposure to silica solns. also leads to a more pronounced inhibitory
effect. This is in good agreement with the increase in silica coverage on
the iron surface as revealed by XPS.
RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l15 and (inhibitor? or stabiliz?) and silica

36 FILES SEARCHED...
62 FILES SEARCHED...
L31 37 L15 AND (INHIBITOR? OR STABILIZ?) AND SILICA

=> dup rem l31

DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK,
INVESTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,
SYNTHLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L31

L32 36 DUP REM L31 (1 DUPLICATE REMOVED)

=> d 1-36 ti

L32 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Stabilization** of trichloroethanes using a 2,2,6,6-tetra(lower
alkyl)-1-piperidinyloxy free radical **stabilizer**

L32 ANSWER 2 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN CYCLOOXYGENASE-2 SELECTIVE **INHIBITORS**, COMPOSITIONS AND
METHODS OF USE
TIFR INHIBITEURS SELECTIFS DE LA CYCLOOXYGENASE 2, COMPOSITIONS ASSOCIEES ET
METHODES D'UTILISATION

L32 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Method to prepare porphyrin nanoparticles and its application as oxidation catalyst

L32 ANSWER 4 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN HETERO-TRICYCLIC COMPOUNDS HAVING SUBSTITUTED AMINO GROUPS.

L32 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Investigation of the **Inhibitory** Effect of **Silica** on the Degradation of 1,1,1-Trichloroethane by Granular Iron

L32 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Bronchial occlusion method and apparatus

L32 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Cellulose acylate solutions with reduced chlorine content, their preparation, and films prepared therefrom

L32 ANSWER 8 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN NPYY5 ANTAGONISTS.

L32 ANSWER 9 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN Neuraminic acid derivatives, their preparation and their medical use.
 TIEN Neuraminic acid derivatives, their preparation and their medical use.

L32 ANSWER 10 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN PERIPHERAL VASODILATING AGENT CONTAINING N-ACYLATED 4-AMINO PIPERIDINE DERIVATIVES AS ACTIVE INGREDIENTS.

L32 ANSWER 11 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN PHARMACEUTICAL COMPOSITION FOR CONTROLLED RELEASE OF AN ACTIVE INGREDIENT
 TIFR COMPOSITION PHARMACEUTIQUE A LIBERATION CONTROLEE DE PRINCIPE ACTIF

L32 ANSWER 12 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN ANTIFUNGAL AZOLE DERIVATIVES HAVING A FLUORINATED VINYL GROUP AND PROCESS FOR PREPARING SAME
 TIFR DERIVES D'AZOLE ANTIFONGIQUES COMPRENANT UN GROUPE VINYLE FLUORE ET PROCEDE DE PREPARATION ASSOCIE

L32 ANSWER 13 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN LIGANDS FOR METALS AND METAL-CATALYZED PROCESSES
 TIFR LIGANDS POUR METAUX ET PROCESSUS PERFECTIONNES CATALYSES PAR DES METAUX BASES SUR CEUX-CI

L32 ANSWER 14 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN BIOMIMETIC COMBINATORIAL SYNTHESIS
 TIFR SYNTHESE COMBINATOIRE BIOMIMETIQUE

L32 ANSWER 15 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN GLUCOCORTICOID-SELECTIVE ANTI-INFLAMMATORY AGENTS
 TIFR AGENTS ANTI-INFLAMMATOIRES PRESENTANT UNE SELECTIVITE POUR LES GLUCOCORTICOIDES

L32 ANSWER 16 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN 1,3-DISUBSTITUTED UREAS AS ACAT **INHIBITORS**, AND METHOD OF PREPARING THEREOF
 TIFR UREES 1,3-DISUBSTITUEES UTILISEES COMME INHIBITEURS D'ACAT, ET LEUR PROCEDE DE PREPARATION

L32 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Unusual solvatochromism of the 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)-tetracyanoethene electron donor-acceptor complex

L32 ANSWER 18 OF 36 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN

TI Metal loaded zeolitic media for the storage and oxidative destruction of
chlorinated VOCs

L32 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Catalytic hydrodechlorination of CCl₄ over **silica**-supported
PdCl₂-containing molten salt catalysis: the promotional effects of CoCl₂
and CuCl₂

L32 ANSWER 20 OF 36 ANABSTR COPYRIGHT 2004 RSC on STN DUPLICATE 1

TI Simultaneous determination of 1,1,1-trichloroethane and its
stabilizer in waterproofing aerosol products by dry-space method.

L32 ANSWER 21 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Volatile emissions from **stabilization**/solidification of
hazardous waste

L32 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Low temperature formation and minimization of chlorinated hydrocarbons

L32 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Transition metal-based catalyst system containing an autoacceleration
inhibitor

L32 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Manufacture and uses of cellular epoxy resin adhesives

L32 ANSWER 25 OF 36 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN

TI Japanese gov(ernmen)t (is) in a 10-year CO₂ recycling R&D project

L32 ANSWER 26 OF 36 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN

TI (A review of sampling and analysis methods for) industrial hygiene

L32 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Microencapsulated electrophotographic toner for cold pressure fixation

L32 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Caulking composition

L32 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Dehydration of organic liquids

L32 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Hydrolysis of alkylene oxides using organometalates

L32 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Effects of the addition of various volatile compounds on the reaction of
1-butene catalyzed by tungsten(VI) oxide-silicon oxide

L32 ANSWER 32 OF 36 IFIPAT COPYRIGHT 2004 IFI on STN

TI THIXOTROPIC CLEANING COMKPOSITION CONTAINING PARTICULATE RESINS AND FUMED
SILICA

L32 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Graphite formation on the surface in annealed low carbon steel sheet

L32 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Drying and **stabilizing** methylchloroform

L32 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Identification of epoxy plasticizers using thin-layer chromatography

L32 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Vulcanization of mixtures of natural or synthetic rubber and light-strengthening fillers

=> d 1,20,22,24,32,34,35 bib ab

L32 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:162519 CAPLUS

TI **Stabilization** of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical **stabilizer**

IN Gorton, Earl M.; Olinger, Ronald D.

PA USA

SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2004039237	A1	20040226	US 2003-648972	20030827
	US 2004030203	A1	20040212	US 2003-436664	20030513
PRAI	US 2002-396460P	P	20020716		
	US 2003-436664	A2	20030513		

AB Trichloroethanes are **stabilized** with a catalytic amount of a stable free radical **stabilizer** [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

L32 ANSWER 20 OF 36 ANABSTR COPYRIGHT 2004 RSC on STN DUPLICATE 1

AN 56(8):E90 ANABSTR

TI Simultaneous determination of 1,1,1-trichloroethane and its **stabilizer** in waterproofing aerosol products by dry-space method.

AU Mori, K.; Nakamura, Y.; Kaneko, M.; Kan, T.; Nakamura, H. (Tokyo Metropolitan Res. Lab. Public Health, Shinjuku-ku, Tokyo 169, Japan)

SO Jpn. J. Toxicol. Environ. Health (1993) 39(4), 317-323

CODEN: JJTHEC ISSN: 0013-273X

DT Journal

LA Japanese

AB Sample (3-4 ml) was mixed with 3-4 ml of the internal standard, 1,2-dichloropropane; 16 µl of the mixture was injected into a 125 ml sealed vial to dry over 3 min. Then 250 µl of the dry-space gas was analysed for its content of 1,1,1-trichloroethane (I), 1,4-dioxan (II), 1,2-epoxybutane (III), nitromethane (IV) and nitroethane (V) by GC on a fused-silica capillary column (30 m + 0.53 mm i.d.) coated with S 2508 (3 µm) and operated at 40°C with He as carrier gas (3.3 ml/min) and FID. Recoveries were 85.6-99.3% with RSD (n = 4) of 3.1-5.4%. Amounts of 48.9-93.1% I were detected, together with 1.42-2.17% II, 200-3100 ppm of III, 500-2800 ppm of IV and 900-1000 ppm of V.

L32 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:112658 CAPLUS

DN 116:112658

TI Low temperature formation and minimization of chlorinated hydrocarbons

AU Stroemberg, Birgitta

CS Studsvik Energy, Nkykoeping, S-611 82, Swed.

SO Chemosphere (1991), 23(8-10), 1515-25

CODEN: CMSHAF; ISSN: 0045-6535

DT Journal

LA English

AB Formation and minimization of chlorinated compds. was examined under low temperature conditions. Expts. show that chlorinated hydrocarbons such as

alkenes, benzenes, phenols, and biphenyls can be formed with CO₂ and HCl as primary reactants in a **silica** sand bed using various catalysts. Several different conditions, like residence time and temperature, and additives to the bed, (catalysts and **inhibitors**) were tested. Anal. of the reactor effluent showed that catalyst and **inhibitors** play an important role in the formation process and there are at least 2 ways of avoiding chlorinated hydrocarbons in flue gases: cleaning the flue gases with active filters and minimization of the HCl content in the flue gas at temps. above those where the maximum formation of chlorinated compds. takes place.

L32 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:187163 CAPLUS

DN 114:187163

TI Manufacture and uses of cellular epoxy resin adhesives

IN Eder, Martin; Zednik, Milan; Vankova, Marcela; Soucek, Jiri

PA Czech.

SO Czech., 4 pp.

CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 267463	B1	19900212	CS 1987-4658	19870623
PRAI	CS 1987-4658		19870623		

AB Adhesive epoxy resin films, which cure by foaming at 100-180°, and are useful in assembling honeycomb structures, filling of cavities, and bonding of aircraft components, comprise ≥1 epoxy resin (epoxy equivalent 166-4000) 100, reinforcing fillers 1-35, blowing agents [e.g., (NH₄)₂CO₃, NaHCO₃, KHCO₃, Na₃PO₄·12H₂O, Na₂HPO₄·7H₂O, isooctane, Cl₂C:CCl₂, ClCH:CCl₂, PhSO₃NNH₂, (4-H₂NNHSO₃C₆H₄)₂O, azobisisobutyronitrile (I), azodicarbonamide, H₂O, or N,N'-dinitrosopentamethylenetetramine] 0.1-10, dicyandiamide (II) 1-15, cure accelerator [e.g., 2,4-(MeNHCONH)₂C₆H₃Me (III), 4-ClC₆H₄NHCOMe₂, or thiuram disulfide] 1-20, surfactant 0.1-10, and foam **stabilizer** [e.g., CM-cellulose or poly(vinyl alc.)] 0.1-10 parts. The epoxy resin, filler, and surfactant are mixed at 90-210°, cooled to 40-90°, II, cure accelerator, and blowing agent are added and the mixture is pressed, calendered, or extruded into films. Thus, a bisphenol A-based epoxy resin (epoxy equivalent 2500-4000) 250, gas black (having BET surface area 50 m²/g) 23, **silica** (BET surface area 200 m²/g) 10, and Slovafo 905 2 g were blended at 200-210° for 50 min, cooled to 80° with addition of 150 g low-mol. weight epoxy resin, mixed with a paste containing low-mol. weight epoxy resin 100, II 30, III 30, and I 5 g for

15

min and calendered to a 2-mm thick film, which was cured at 120° for 60 min with foam expansion by 100-200 volume %.

L32 ANSWER 32 OF 36 IFIPAT COPYRIGHT 2004 IFI on STN

AN 01006242 IFIPAT;IFIUDB;IFICDB

TI THIXOTROPIC CLEANING COMPOSITION CONTAINING PARTICULATE RESINS AND FUMED **SILICA**

INF Lautenberger, William Jacob, Wilmington, DE

IN LAUTENBERGER WILLIAM JACOB

PAF E I Du Pont de Nemours and Company, Wilmington, DE

PA DU PONT DE NEMOURS, E I & CO (25048)

EXNAM Engle, Samuel W

EXNAM Palo, Ralph

PI US 3956162 A 19760511 (CITED IN 019 LATER PATENTS)

AI US 1973-370284 19730615

XPD 11 May 1993

FI US 3956162 19760511

DE 2428032

FR 2233396
 GB 1459342
 DT Utility
 FS CHEMICAL
 GRANTED
 OS CA 82:126925
 CLMN 7
 AB A cleaning composition in the form of a thixotropic paste which consists essentially of finely divided insoluble particulate matter, water, a petroleum distillate boiling from 150* to 250*C., a hydrocarbon or halogenated hydrocarbon liquid boiling from about 35* to 75*C., and an emulsifying surfactant.

L32 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1974:3069 CAPLUS
 DN 80:3069
 TI Drying and **stabilizing** methylchloroform
 IN Miyazaki, Hidetaka; Takahashi, Masaharu
 PA Tokuyama Soda Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 48067206	A2	19730913	JP 1971-102680	19711220
PRAI	JP 1971-102680		19711220		
AB	MeCCl3 was washed with 2% aqueous Na2CO3 and dried with synthetic zeolite (H or Na type) to 20 ppm H2O. After storage for 1 week, it had pH 7.0 vs. 1.7 for the control (drying with silica or alumina).				

L32 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1973:85264 CAPLUS
 DN 78:85264
 TI Identification of epoxy plasticizers using thin-layer chromatography
 AU Kreiner, J. G.
 CS Res. Dev. Cent., Gen. Tire Rubber Co., Akron, OH, USA
 SO Journal of Chromatography (1973), 75(2), 271-6
 CODEN: JOCRAM; ISSN: 0021-9673
 DT Journal
 LA English
 AB Multicomponent epoxy plasticizers and **stabilizers** used in poly(vinyl chloride) [9002-86-2] compns. were identified by thin-layer chromatog. on **Silica** Gel G using a H2SO4-anisaldehyde [123-11-5] chromogenic indicator and either 3:1 Cl3CMe-CH2Cl2 or 75:25:2 Cl3CMe-CH2Cl2-MeCOEt mixture inhibited with 1,4-dioxane. Data are given for 11 epoxy plasticizers, bis(2-ethylhexyl) phthalate [117-81-7], bis(2-ethylhexyl) azelate [103-24-2], tris(2-ethylhexyl) trimellitate [3319-31-1], and MeOH-extracted PVC compns.

=> file patent

FILE 'ENCOMPPAT' ACCESS NOT AUTHORIZED
 COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
2257.10	2591.41

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE ENTRY	TOTAL SESSION
-16.63	-18.71

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FILE 'USPAT2' ENTERED AT 04:06:52 ON 22 MAR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 04:06:52 ON 22 MAR 2004
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> fsearch jp09328444/pn

SEA JP09328444/PN
95% OF LIMIT FOR L#S REACHED
L33 4 JP09328444/PN

FSE
*** ITERATION 1 ***

SET SMARTSELECT ON
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF
SET COMMAND COMPLETED

SEL L33 1- PN,APPS
L34 SEL L33 1- PN APPS : 2 TERMS

SEA L34
MAXIMUM L# WOULD BE EXCEEDED.

DEL L***- Y
L***- IS NOT VALID HERE
The DELETE command is used to remove various items stored by the
system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

DELETE BIO?/Q	- delete query names starting with BIO
DELETE ?DRUG/A	- delete answer set names ending with DRUG
DELETE ?ELEC?/L	- delete L-number lists containing ELEC
DELETE ANTICOAG/S	- delete SDI request
DELETE ENZYME/B	- delete batch request
DELETE .MYCLUSTER	- delete user-defined cluster
DELETE .MYFORMAT	- delete user-defined display format
DELETE .MYFIELD	- delete user-defined search field
DELETE NAMELIST MYLIST	- delete mailing list

To delete an ordered document or an offline print, enter its number.

Examples:

DELETE P123001C	- delete print request
DELETE D134002C	- delete document order request

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

DELETE L21	- delete a single L-number
DELETE L3-L6	- delete a range of L-numbers
DELETE LAST 4	- delete the last 4 L-numbers
DELETE L33-	- delete L33 and any higher L-number
DELETE -L55	- delete L55 and any lower L-number
DELETE L2-L6 RENUMBER	- delete a range of L-numbers and renumber remaining L-numbers
DELETE RENUMBER	- renumber L-numbers after deletion of intermediate L-numbers

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

DELETE SAVED/Q	- delete all saved queries
DELETE SAVED/A	- delete all saved answer sets
DELETE SAVED/L	- delete all saved L-number lists
DELETE SAVED	- delete all saved queries, answer sets, and L-number lists
DELETE SAVED/S	- delete all SDI requests
DELETE SAVED/B	- delete all batch requests
DELETE CLUSTER	- delete all user-defined clusters
DELETE FORMAT	- delete all user-defined display formats
DELETE FIELD	- delete all user-defined search fields
DELETE SELECT	- delete all E-numbers
DELETE HISTORY	- delete all L-numbers and restart the session at L1

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the

multifile SDI, enter DELETE and the name of the component.
DEL L34- Y

SET HIGHLIGHTING DEF
SET COMMAND COMPLETED

SET SMARTSELECT OFF
SET COMMAND COMPLETED

=> d 1-4 ti

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them

L33 ANSWER 2 OF 4 INPADOC COPYRIGHT 2004 EPO on STN
TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION.

L33 ANSWER 3 OF 4 JAPIO (C) 2004 JPO on STN
TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION

L33 ANSWER 4 OF 4 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Decomposition inhibitors for chloro-hydrocarbon(s) - comprise piperidine-1-oxyl as main component, added during production/purification or storage to increase purity, facilitate stabilisation of process and ensure safety operation of apparatus.

=> d 1-4 all

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:8627 CAPLUS
DN 128:61255
ED Entered STN: 08 Jan 1998
TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them
IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
PA Hakuto K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07C019-01
ICS C07C017-42; C07C021-18
CC 23-3 (Aliphatic Compounds)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09328444	A2	19971222	JP 1996-145880	19960607 <--
PRAI	JP 1996-145880		19960607		
OS	MARPAT 128:61255				
AB	The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl3 and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition).				
ST	oxylpiperidine inhibitor decompn chlorohydrocarbon; chloroethane decompn inhibitor methylpiperidinyloxy				
IT	Decomposition Stabilizing agents (1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)				
IT	Hydrocarbons, miscellaneous RL: MSC (Miscellaneous)				

(chloro; 1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)
 IT 2226-96-2, HTEMPO 2516-92-9 2564-83-2, TEMPO 6599-87-7 200433-13-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)
 IT 71-55-6, 1,1,1-Trichlorethane
 RL: MSC (Miscellaneous)
 (1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)

L33 ANSWER 2 OF 4 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 103691621 INPADOC EW 199807 UW 199818
 TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION.
 IN NAKAJIMA SADA0; TANIZAKI SEIJI; NAKAMURA SOTARO
 INS NAKAJIMA SADA0; TANIZAKI SEIJI; NAKAMURA SOTARO
 PA HAKUTO CO LTD
 PAS HAKUTO KK
 TL English
 DT Patent
 PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION
 PI JP 09328444 A2 19971222
 AI JP 1996-145880 A 19960607
 PRAI JP 1996-145880 A 19960607
 OSCA 128:061255
 OSDW 98-105091
 ICM (6) C07C019-01
 ICS (6) C07C017-42; (6) C07C021-18

L33 ANSWER 3 OF 4 JAPIO (C) 2004 JPO on STN

AN 1997-328444 JAPIO
 TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION
 IN NAKAJIMA SADA0; TANIZAKI SEIJI; NAKAMURA SOTARO
 PA HAKUTO CO LTD
 PI JP 09328444 A 19971222 Heisei
 AI JP 1996-145880 (JP08145880 Heisei) 19960607
 PRAI JP 1996-145880 19960607
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1997
 IC ICM C07C019-01
 ICS C07C017-42; C07C021-18
 AB PROBLEM TO BE SOLVED: To obtain degradation retarder of a chlorinate hydrocarbon comprising pyperidine-1-oxyl group, capable of efficiently retarding a degradation of chlorinated hydrocarbons when purifying by a distillation or storing.
 SOLUTION: This degradation retarder consists essentially of pyperidine-1-oxyl group of formula I, II, III and IV (R<SP>1</SP> is a 1-3C alkyl; R<SP>2</SP> is H, OH or OR<SP>3</SP>; R<SP>3</SP> is a 1-3C alkyl or phenyl; R<SP>4</SP> is H or a 1-17C alkyl; X is a 1-8C alkylene or phenylene). The addition amount of the compound based on the amount of the chlorinated hydrocarbon is 0.05-200wt.ppm, especially 1-20wt.ppm. The pyperidine-1-oxyl group prevents the plugging of the pipeline of a distillation equipment because not forming a solid salt and can efficiently retard the degradation of the chlorinated hydrocarbon so can improve the purity of the chlorinated hydrocarbons further stabilize the process and facilitate a safety operation of the equipment.
 COPYRIGHT: (C)1997,JPO

L33 ANSWER 4 OF 4 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1998-105091 [10] WPIDS
 DNC C1998-034822
 TI Decomposition inhibitors for chloro-hydrocarbon(s) - comprise piperidine-1-oxyl as main component, added during production/purification

or storage to increase purity, facilitate stabilisation of process and ensure safety operation of apparatus.

DC E13 E19

PA (HAKU-N) HAKUTO KK

CYC 1

PI JP 09328444 A 19971222 (199810)* 4p C07C019-01 <--

ADT JP 09328444 A JP 1996-145880 19960607

PRAI JP 1996-145880 19960607

IC ICM C07C019-01

ICS C07C017-42; C07C021-18

AB JP 09328444 A UPAB: 19980309

Decomposition inhibitors (II) for chlorohydrocarbons (I) comprise piperidine-1-oxyl as the main component. Also claimed is a method for inhibition of decomposition of (I) comprising adding (II) during the production/purification or storage of (I).

MORE SPECIFICALLY - (I) are 1-10C optionally saturated and optionally cyclic ones and (II) are selected from (IIa)-(IId). R1 = 1-3C alkyl; R2 = H, OH or OR3; R3 = 1-3C alkyl or phenyl; R4 = H, 1-17C alkyl; and X = 1-8C alkylene or phenylene.

ADVANTAGE - Decomposition of (I) during their distillation/purification or storage can be efficiently suppressed to increase their purity and facilitate stabilisation of the process and ensure safety operation of the apparatus.

Dwg.0/0

FS CPI

FA AB; GI; DCN

MC CPI: E07-D05; E10-H03C

=> fsearch jp48067206/pn

SEA JP48067206/PN

MAXIMUM L# WOULD BE EXCEEDED.

FSE

*** ITERATION 1 ***

SET SMARTSELECT ON

SET COMMAND COMPLETED

SET HIGHLIGHTING OFF

SET COMMAND COMPLETED

SEL L33 1- PN,APPS

L34 SEL L33 1- PN APPS : 2 TERMS

SEA L34

MAXIMUM L# WOULD BE EXCEEDED.

DEL L***- Y

L***- IS NOT VALID HERE

The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

DELETE BIO?/Q

DELETE ?DRUG/A

DELETE ?ELEC?/L

- delete query names starting with BIO

- delete answer set names ending with DRUG

- delete L-number lists containing ELEC

DELETE ANTICOAG/S	- delete SDI request
DELETE ENZYME/B	- delete batch request
DELETE .MYCLUSTER	- delete user-defined cluster
DELETE .MYFORMAT	- delete user-defined display format
DELETE .MYFIELD	- delete user-defined search field
DELETE NAMELIST MYLIST	- delete mailing list

To delete an ordered document or an offline print, enter its number.

Examples:

DELETE P123001C	- delete print request
DELETE D134002C	- delete document order request

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

DELETE L21	- delete a single L-number
DELETE L3-L6	- delete a range of L-numbers
DELETE LAST 4	- delete the last 4 L-numbers
DELETE L33-	- delete L33 and any higher L-number
DELETE -L55	- delete L55 and any lower L-number
DELETE L2-L6 RENUMBER	- delete a range of L-numbers and renumber remaining L-numbers
DELETE RENUMBER	- renumber L-numbers after deletion of intermediate L-numbers

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

DELETE SAVED/Q	- delete all saved queries
DELETE SAVED/A	- delete all saved answer sets
DELETE SAVED/L	- delete all saved L-number lists
DELETE SAVED	- delete all saved queries, answer sets, and L-number lists
DELETE SAVED/S	- delete all SDI requests
DELETE SAVED/B	- delete all batch requests
DELETE CLUSTER	- delete all user-defined clusters
DELETE FORMAT	- delete all user-defined display formats
DELETE FIELD	- delete all user-defined search fields
DELETE SELECT	- delete all E-numbers
DELETE HISTORY	- delete all L-numbers and restart the session at L1

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the multifile SDI, enter DELETE and the name of the component.
DEL L34- Y

SET HIGHLIGHTING DEF
SET COMMAND COMPLETED

SET SMARTSELECT OFF
SET COMMAND COMPLETED

=> d

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:8627 CAPLUS
 DN 128:61255
 TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of
 decomposition of chlorohydrocarbons by using them
 IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
 PA Hakuto K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09328444	A2	19971222	JP 1996-145880	19960607 <--
PRAI	JP 1996-145880		19960607		
OS	MARPAT 128:61255				

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"
 L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
 L4 SCREEN 2016 OR 2021
 L5 STRUCTURE UPLOADED
 L6 QUE L5 AND L3 NOT L4
 L7 0 S L6
 L8 0 S L6 FUL
 L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
 L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
 L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
 L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
 L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE,
 BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN,
 COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP,
 GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22
 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
 L16 3 S FREE RADICAL STABILIZER AND L15
 L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
 L18 4 S L15 AND L11
 L19 3 DUP REM L18 (1 DUPLICATE REMOVED)
 L20 236 S BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
 L21 0 S L15 AND L20
 L22 13397 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
 L23 5 S L22 AND L15
 L24 4 DUP REM L23 (1 DUPLICATE REMOVED)
 L25 1181 S 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?

```

L26          0 S L15 AND L25
L27          75130 S (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)
L28          45 S L15 AND L27
L29          42 DUP REM L28 (3 DUPLICATES REMOVED)
L30          1 S L15 (25A) (INHIBITOR? OR STABILIZ?) (25A) SILICA
L31          37 S L15 AND (INHIBITOR? OR STABILIZ?) AND SILICA
L32          36 DUP REM L31 (1 DUPLICATE REMOVED)

```

FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT2, EUROPATFULL, FSTA, IFIPAT, INPADOC, JAPIO, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAFULL, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PCTGEN, PIRA, RAPRA, RDISCLOSURE, SYNTHLINE, TULSA, TULSA2, USPATFULL, ...' ENTERED AT 04:06:52 ON 22 MAR 2004

```

L33          4 SEA JP09328444/PN
              SET SMARTSELECT ON
              SET HIGHLIGHTING OFF
              SET HIGHLIGHTING DEF
              SET SMARTSELECT OFF
              SET SMARTSELECT ON
              SET HIGHLIGHTING OFF
              SET HIGHLIGHTING DEF
              SET SMARTSELECT OFF

```

=> fsearch jp48067206/pn

SEA JP48067206/PN
MAXIMUM L# WOULD BE EXCEEDED.

FSE
*** ITERATION 1 ***

SET SMARTSELECT ON
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF
SET COMMAND COMPLETED

SEL L33 1- PN,APPS
L34 SEL L33 1- PN APPS : 2 TERMS

SEA L34
MAXIMUM L# WOULD BE EXCEEDED.

DEL L***- Y
L***- IS NOT VALID HERE
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DELETE .MYFORMAT	- delete user-defined display format
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To delete an ordered document or an offline print, enter its number.

Examples:

```
DELETE P123001C      - delete print request
DELETE D134002C      - delete document order request
```

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

```
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DELETE -L55          - delete L55 and any lower L-number
DELETE L2-L6 RENUMBER - delete a range of L-numbers and
                      renumber remaining L-numbers
DELETE RENUMBER       - renumber L-numbers after deletion of
                      intermediate L-numbers
```

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```
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DELETE SAVED/A - delete all saved answer sets
DELETE SAVED/L - delete all saved L-number lists
DELETE SAVED   - delete all saved queries, answer sets,
                  and L-number lists
DELETE SAVED/S - delete all SDI requests
DELETE SAVED/B - delete all batch requests
DELETE CLUSTER - delete all user-defined clusters
DELETE FORMAT  - delete all user-defined display formats
DELETE FIELD   - delete all user-defined search fields
DELETE SELECT  - delete all E-numbers
DELETE HISTORY - delete all L-numbers and restart the
                  session at L1
```

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the multifile SDI, enter DELETE and the name of the component.
DEL L34- Y

```
SET HIGHLIGHTING DEF
SET COMMAND COMPLETED
```

```
SET SMARTSELECT OFF
SET COMMAND COMPLETED
```

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

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L1      0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"
L2      0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"/CN
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FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
L18 4 S L15 AND L11
L19 3 DUP REM L18 (1 DUPLICATE REMOVED)
L20 236 S BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
L21 0 S L15 AND L20
L22 13397 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L23 5 S L22 AND L15
L24 4 DUP REM L23 (1 DUPLICATE REMOVED)
L25 1181 S 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?
L26 0 S L15 AND L25
L27 75130 S (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)
L28 45 S L15 AND L27
L29 42 DUP REM L28 (3 DUPLICATES REMOVED)
L30 1 S L15 (25A) (INHIBITOR? OR STABILIZ?) (25A) SILICA
L31 37 S L15 AND (INHIBITOR? OR STABILIZ?) AND SILICA
L32 36 DUP REM L31 (1 DUPLICATE REMOVED)

FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT2, EUROPATFULL, FSTA, IFIPAT, INPADOC, JAPIO, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAFULL, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PCTGEN, PIRA, RAPRA, RDISCLOSURE, SYNTHLINE, TULSA, TULSA2, USPATFULL, ...' ENTERED AT 04:06:52 ON 22 MAR 2004

L33 4 SEA JP09328444/PN
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF

=> log y

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

56.04

2647.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

TOTAL

SESSION

CA SUBSCRIBER PRICE

-0.69

-19.40

STN INTERNATIONAL LOGOFF AT 04:12:24 ON 22 MAR 2004